Geographic Information Systems, AAS

Award Granted: Associate in Applied Science in Geographic Information Systems

Major code: 03/353

Credits/Contacts Required: **61/63**

CIP Code: 151102

Description

Geospatial studies encompasses several learning domains including geography (study of the features of the earth) and geodesy (study of the measurement and representation of the earth), and its uses with cartography, geographic information systems, and geospatial analysis to solve problems in a variety of disciplines ranging from life sciences to military to health care fields. Computer and mobile application-based tools such as spatial analysis, 3D mapping, and geovisualization make this career both engaging and challenging.

General Education Requirements (Min 17 Credits)

- ENGL 101 - Rhetoric & Composition **Credits: 3**
- MATH xxx - Mathematics Elective (MATH 105, MATH 107, or higher) **Credits: 4**
- GEOG 110 - Physical Geography **Credits: 4**
- GEOG 121 - World Regional Geography **Credits: 3**
- XXXX xxx - Social & Behavioral Science or Humanities Elective **Credits: 3**

Program Requirements (Min 44 Credits)

- BIOL 107 - Environmental Science **Credit(s): 3**
- CIS 101 - Computer Concepts & Apps **Credit(s): 4**
- CIS 210 - Web Page Design & Structure **Credit(s): 3**
- CNSS 150 – A+ Computer Maintenance **Credit(s): 4**
- GEOG 150 - Map, Compass, & GPS **Credit(s): 2**
- GIS 201 - Introduction to Geographic Information Systems **Credit(s): 3**
- GIS 202 - Data Management **Credit(s): 3**
- GIS 203 - Spatial Analysis **Credit(s): 4**
- GIS 204 - Advanced Cartography **Credit(s): 4**
- GIS 205 - Remote Sensing **Credit(s): 4**
- GIS 272 - GIS Co-op Internship **Credit(s): 1-8 ***
- XXXX xxx - Approved Electives **Credit(s): 7**

Approved Elective (7 Credits)

- BUSN 203 - Management Information Systems **Credit(s): 3**
- CIS 130 - Spreadsheet Applications **Credit(s): 3**
- CIS 140 - Database Applications **Credit(s): 3**
- CNSS 245 - SQL Server **Credit(s): 4**
- CNSS 262 - Web Server Administration **Credit(s): 4**
- GIS 273 - GIS Co-op Internship **Credit(s): 1-8 ***
- GIS 274 - GIS Co-op Internship **Credit(s): 1-8 ***

Suggested Sequences Per Semester

First Semester

- ENGL 101 - Rhetoric & Composition **Credits: 3**
- GEOG 110 - Physical Geography **Credits: 4**
- CNSS 150 - A plus Computer Maintenance **Credits: 4**
- GIS 201 - Introduction to Geographic Information Systems **Credits: 3**

First Semester Total - Credit(s): 14 | Contacts: 18

Second Semester

- XXXX xxx - Approved Elective **Credits: 3** *
- CIS 101 - Computer Concepts & Apps **Credits: 4**
- GEOG 121 - World Regional Geography **Credits: 3**
- GEOG 150 - Map, Compass, & GPS **Credits: 2**
- XXXX xxx - Social & Behavioral Science or Humanities Elective **Credits: 3**

Second Semester Total - Credit(s): 15 | Contacts: 15

Third Semester

- CIS 210 - Web Page Design & Structure **Credits: 3**
- MATH (MATH 105, MATH 107, or higher) **Credits: 4**
- BIOL 107 - Environmental Science **Credits: 3**
- GIS 202 - Data Management **Credits: 3**
- GIS 203 - Spatial Analysis **Credits: 4**

Third Semester Total - Credit(s): 17 | Contacts: 17

Fourth Semester

- XXXX xxx - Approved Elective **Credits: 4** *
- GIS 204 - Advanced Cartography **Credits: 4**
- GIS 205 - Remote Sensing **Credits: 4**
- GIS xxx - Co-op\Internship **Credits: 3** *

Fourth Semester Total - Credit(s): 15 | Contacts: 15

NOTES: * All Internships and Co-ops require that the student pass a criminal background check.